

## ENGLISH ABSTRACT FOR FR2004989

1 / 1 WPAT - ©Thomson Derwent

**Accession Nbr :**

1970-17070R [11]

**Title :**

Improvements to light emitters directly converting - electrical energy into light

**Derwent Classes :**

E33 G04 L03 U12 U14 X25 X26

**Patent Assignee :**

(GENE ) GENERAL ELECTRIC CO

**Nbr of Patents :**

6

**Nbr of Countries :**

6

**Patent Number :**

FR2004989 A 0 DW1970-11 \*

US3529200 A 0 DW1970-37

JP71009194 B 0 DW1971-11

DE1915290 B 0 DW1971-21

CA-887880 A 0 DW1971-50

GB1263185 A 0 DW1972-06

**Priority Details :**

1968US-0716897 19680328

**IPC's :**

H01L-003/00 H05B-033/00

**Abstract :**

FR2004989 A

Device comprises an infra-red emitting p-n junction semi-conductor body which emits radiations in a narrow spectral range, including infra-red 1.000 cm<sup>-1</sup> (number of waves) at an intensity > that of a black body at 2,500 degrees C, and a phosphorescent substance energized by stages which converts the infra-red energy into visible light and has an excitation spectrum corresponding to the emission spectrum of this body. Phosphorescent substance is joined optically to this body so as to receive its infra-red emission and provide a visible emission. Solid state semi-conductor or lamp of high luminosity and efficiency emitting preferably green or blue light is obtained.

**Manual Codes :**

CPI: E31-L E31-M E31-P E34-E G04-A

**Update Basic :**

1970-11

**Update Equivalents :**

1970-37; 1971-11; 1971-21; 1971-50; 1972-06